



information in a case where the subscriber service  
information about the mobile station that has transmitted  
the call origination signal is not registered in a first  
management unit provided for use with the switching station  
5 and managing subscriber information.

5. The switching station as claimed in claim 4,  
wherein said first management unit is a VLR.

10 6. The switching station as claimed in claim 4,  
wherein said second management unit is an HLR.

7. A switching station comprising:

20 02020" SEET/001  
15 means for receiving a call termination signal to a  
mobile station; and

means for acquiring, when the call termination signal  
is received, subscriber service information about the  
mobile station designated as a destination of the call  
termination signal from a second management unit managing  
20 subscriber information in a case where the subscriber  
service information about the mobile station designated  
as the destination of the call termination signal is not  
registered in a first management unit provided for use with  
the switching station and managing subscriber  
25 information.

8. The switching station as claimed in claim 7,  
wherein said first management unit is a VLR.

9. The switching station as claimed in claim 7,  
5 wherein said second management unit is an HLR.

10. A switching station comprising:

means for receiving a location registration signal  
from a mobile station; and

10 means for registering, when the location registration  
signal is received, subscriber service information about  
the mobile station that has transmitted the location  
registration signal in a management unit provided for use  
with another switching station and managing subscriber  
15 information in a case where no subscriber service  
information can be newly registered in a management unit  
provided for use with the switching station and managing  
subscriber information.

20 11. The switching station as claimed in claim 10,  
wherein said management unit is a VLR.

12. A switching station comprising:

means for receiving a call origination signal from a  
25 mobile station; and

means for acquiring, when the call origination signal  
is received, subscriber service information about the

mobile station that has transmitted the call origination signal from a management unit provided for use with another switching station and managing subscriber information in a case where the subscriber service information about the mobile station that has transmitted the call origination signal is not registered in a management unit provided for use with the switching station and managing subscriber information.

10 13. The switching station as claimed in claim 12, wherein said management unit is a VLR.

14. A switching station comprising:

means for receiving a call termination signal to a mobile station; and

means for acquiring, when the call termination signal is received, subscriber service information about the mobile station designated as a destination of the call termination signal from a management unit provided for use with another switching station and managing subscriber information in a case where the subscriber service information about the mobile station designated as the destination of the call termination signal is not registered in a management unit provided for use with the switching station and managing subscriber information.

15. The switching station as claimed in claim 14,  
wherein said management unit is a VLR.

16. A switching station comprising:

5 means for registering, at a request from another  
switching station, subscriber service information in a  
management unit provided for use with the switching station  
and managing subscriber information; and

means for transmitting the subscriber service  
10 information registered in the management unit to said  
another switching station at a request from said another  
switching station.

17. The switching station as claimed in claim 16,  
15 wherein said management unit is a VLR.

18. A switching station comprising:

means for receiving a location registration signal  
from a mobile station; and

20 means for deleting, when the location registration  
signal is received, one of pieces of subscriber service  
information presently registered in a first management  
unit provided for use with the switching station and  
managing subscriber information, and for registering  
25 subscriber service information of the mobile station that  
has transmitted the location registration signal in the  
first management unit provided for use with the switching

station, in a case where no subscriber service information can be newly registered in the first management unit provided for use with the switching station.

5        19. The switching station as claimed in claim 18,  
further comprising means for registering subscriber  
location information about a mobile station in a second  
management unit managing subscriber information, and  
means for receiving subscriber service information about  
10 a mobile station from said second management unit, wherein  
said switching station registers, when the location  
registration signal is received, subscriber location  
information about the mobile station that has transmitted  
the location registration signal in a second management  
15 unit managing subscriber information, receives subscriber  
service information about the mobile station that has  
transmitted the location registration signal from said  
second management unit, deletes one of pieces of subscriber  
service information presently registered in the first  
20 management unit provided for use with the switching station,  
and registers the subscriber service information of the  
mobile station that has transmitted the location  
registration signal in the first management unit provided  
for use with the switching station, in a case where no  
25 subscriber service information can be newly registered in  
the first management unit provided for use with the  
switching station.

20. The switching station as claimed in claim 19,  
wherein said second management unit is an HLR.

5 21. The switching station as claimed in claim 18,  
further comprising means for registering subscriber  
location information about a mobile station in a second  
management unit managing subscriber information, wherein  
when the switching station deletes one of pieces of  
10 subscriber service information presently registered in  
the first management unit for use with the switching  
station, the switching station does not delete, from the  
first management unit for use with the switching station,  
subscriber location information about a mobile station  
15 corresponding to the subscriber service information to be  
deleted, and wherein when the switching station receives  
the location registration signal from the mobile station,  
the switching station registers in the second management  
unit the subscriber location information about the mobile  
20 station registered in the first management unit for use  
with the switching station.

22. The switching station as claimed in claim 21,  
wherein said second management unit is an HLR.

25 23. The switching station as claimed in claim 18,  
further comprising means for receiving a call origination

signal from a mobile station, and means for acquiring subscriber service information about a mobile station from a second management unit managing subscriber information, wherein when the switching station receives, after

5 deleting one of pieces of subscriber service information presently registered in the first management unit for use with the switching station, a call origination signal from a mobile station corresponding to the deleted subscriber service information, the switching station acquires the  
10 subscriber service information about the mobile station from the second management unit, and, if the acquired subscriber service information cannot be newly registered in the first management unit for use with the switching station, the switching station deletes one of pieces of  
15 subscriber service information presently registered in the first management unit, and registers the acquired subscriber service information in the first management unit for use with the switching station.

20 24. The switching station as claimed in claim 23, wherein said second management unit is an HLR.

25 25. The switching station as claimed in claim 18, further comprising means for receiving a call termination signal to a mobile station, and means for acquiring subscriber service information about a mobile station from a second management unit managing subscriber information,

wherein when the switching station receives, after deleting one of pieces of subscriber service information presently registered in the first management unit for use with the switching station, a call termination signal to a mobile station corresponding to the deleted subscriber service information, the switching station acquires the subscriber service information about the mobile station from the second management unit, and, if the acquired subscriber service information cannot be newly registered in the first management unit for use with the switching station, the switching station deletes one of pieces of subscriber service information presently registered in the first management unit, and registers the acquired subscriber service information in the first management unit for use with the switching station.

26. The switching station as claimed in claim 25, wherein said second management unit is an HLR.

27. The switching station as claimed in claim 18, wherein said first management unit is a VLR.

28. The switching station as claimed in claim 18, wherein said switching station selects the mobile station whose subscriber service information is to be deleted, in consideration of at least one of call origination, call

termination, location registration, and power state of mobile stations.

29. The switching station as claimed in claim 28,  
5 wherein said switching station selects, as the mobile station whose subscriber service information is to be deleted, a mobile station which has made neither call origination nor call termination during the longest time period till the present time.

10 30. The switching station as claimed in claim 28, wherein said switching station selects, as the mobile station whose subscriber service information is to be deleted, a mobile station which has made neither call  
15 origination, call termination nor location registration for predetermined period of time, or a mobile station whose power state is off.

20 31. The switching station as claimed in claim 18, wherein said switching station selects the mobile station whose subscriber service information is to be deleted, in consideration of communication state of mobile stations.

25 32. The switching station as claimed in claim 18, wherein said switching station registers, when it registers subscriber service information, the subscriber service information as first type of subscriber service

information or as second type of subscriber service information, and selects the subscriber service information to be deleted from said first type of subscriber service information.

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33. A subscriber location information registration method comprising the steps of:

receiving, at a switching station, a location registration signal from a mobile station; and

10 registering, at the switching station, when the location registration signal is received, subscriber location information about the mobile station that has transmitted the location registration signal in a second management unit managing subscriber information in a case  
15 where no subscriber service information can be newly registered in a first management unit provided for use with the switching station and managing subscriber information.

20 34. A subscriber service information acquisition method comprising the steps of:

receiving, at a switching station, a call origination signal from a mobile station; and

acquiring, at the switching station, when the call  
25 origination signal is received, subscriber service information about the mobile station that has transmitted the call origination signal from a second management unit

managing subscriber information in a case where the subscriber service information about the mobile station that has transmitted the call origination signal is not been registered in a first management unit provided for  
5 use with the switching station and managing subscriber information.

35. A subscriber service information acquisition method comprising the steps of:

- 10 receiving, at a switching station, a call termination signal to a mobile station; and
- acquiring, at the switching station, when the call termination signal is received, subscriber service information about the mobile station designated as a  
15 destination of the call termination signal from a second management unit managing subscriber information in a case where the subscriber service information about the mobile station designated as the destination of the call termination signal is not registered in a first management  
20 unit provided for use with the switching station and managing subscriber information.

36. A subscriber service information registration method comprising the steps of:

- 25 receiving, at a first switching station, a location registration signal from a mobile station; and .

registering, at the first switching station, when the location registration signal is received, subscriber service information about the mobile station that has transmitted the location registration signal in a management unit provided for use with a second switching station and managing subscriber information in a case where no subscriber service information can be newly registered in a management unit provided for use with the first switching station and managing subscriber information.

37. A subscriber service information acquisition method comprising the steps of:

receiving, at a first switching station, a call origination signal from a mobile station; and

acquiring, at the first switching station, when the call origination signal is received, subscriber service information about the mobile station that has transmitted the call origination signal from a management unit provided for use with a second switching station and managing subscriber information in a case where the subscriber service information about the mobile station that has transmitted the call origination signal is not registered in a management unit provided for use with the first switching station and managing subscriber information.

38. A subscriber service information acquisition method comprising the steps of:

receiving, at a first switching station, a call termination signal to a mobile station; and

acquiring, at the first switching station, when the call termination signal is received, subscriber service information about the mobile station designated as a destination of the call termination signal from a management unit provided for use with a second switching station and managing subscriber information in a case where the subscriber service information about the mobile station designated as the destination of the call termination signal is not registered in a management unit provided for use with the first switching station and managing subscriber information.

39. A subscriber service information transmission method comprising the steps of:

registering, at a first switching station, at a request from a second switching station, subscriber service information in a management unit provided for use with the first switching station and managing subscriber information; and

transmitting, at the first switching station, the service information registered in the management unit to the second switching station at a request from the second switching station.

40. A subscriber service information registration method comprising the steps of:

receiving, at a switching station, a location registration signal from a mobile station; and

5 deleting, at the switching station, when the location registration signal is received, one of pieces of subscriber service information presently registered in a first management unit provided for use with the switching station and managing subscriber information, and

10 registering, at the switching station, subscriber service information of the mobile station that has transmitted the location registration signal in the first management unit provided for use with the switching station, in a case where  
15 no subscriber service information can be newly registered in the first management unit provided for use with the switching station.